

New National Phase Application  
12480-000147/US

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant(s): Masayo TAKAHASHI et al.  
Int'l Application No.: PCT/JP2004/003848  
Application No.: **NEW APPLICATION**  
Filed: September 29, 2005  
For: METHOD OF PRODUCING LENS CELL AND LENS CELL  
OBTAINED BY THE METHOD

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**INFORMATION DISCLOSURE STATEMENT  
(SUBMISSION CONCURRENT WITH THE  
FILING OF A NEW PATENT APPLICATION)**

Customer Service Window  
Randolph Building  
401 Dulany Street  
Alexandria, VA 22314  
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September 29, 2005

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications, or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

II. COPIES

- ☐ Submitted herewith is a legible copy of (i) each U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.
- ☒ This application is a National Phase of a PCT application. All of the documents listed on the PTO-1449 are not enclosed because they were cited in the International Search Report and copies should be forwarded from the International Search Authority. If copies are needed, please contact the undersigned.

- ☐ Because the present application is being filed after June 30, 2003, no copies of the U.S. patents or U.S. patent application publications which are listed on the attached Form 1449 are enclosed pursuant to the waiver of 37 C.F.R. § 1.98(a)(2)(i). Any foreign patent documents or non-patent literature listed on the attached Form 1449 are enclosed herewith.

III. CONCISE EXPLANATION OF THE RELEVANCE  
(check at least one box)

a. ☐ **DOCUMENTS IN THE ENGLISH LANGUAGE**

The attached patents, publications, or other information in the English language do not require a statement of relevancy.

b. ☒ **DOCUMENTS NOT IN THE ENGLISH LANGUAGE**

A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows:

Many of the documents have been discussed in the PCT Search Report, and/or throughout the specification. The PCT Search Report indicate the degree of relevance found by the PCT Office, thereby satisfying the requirement for a concise explanation. See MPEP 609(A)(3).

c. ☒ **ENGLISH LANGUAGE SEARCH REPORT**

An English language version of the search report or action that indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(A)(3).

d. ☒ **OTHER**

The following additional information is provided for the Examiner's consideration.

International Search Report

New National Phase Application  
Docket No. 12480-000147/US

FEES

This Information Disclosure Statement is being filed concurrently with the filing of a new patent application; therefore, no fee is required.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule and charge the appropriate fee to Deposit Account No. 08-0750.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 08-0750 for any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of time fees.

Respectfully submitted,

HARNESS, DICKEY & PIERCE, P.L.C.

By:   
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Enclosures:

- ☒ Form PTO-1449(s)
- ☒ Documents
- ☒ International Search Report

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Sheet 1 of 1

JC12 Rec'd PCT. 29 SEP 2005

<b>Form PTO-1449</b>  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  (Use several sheets if necessary)	<b>ATTY DOCKET NO.</b> 12480-000147/US	<b>APPLICATION NO.</b> <b>NEW APPLICATION</b>
	<b>APPLICANT(S)</b> Masayo TAKAHASHI et al.	<b>CONF. NO.</b> Unknown
	<b>FILING DATE</b> September 29, 2005	<b>GROUP</b> Unknown

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	5,643,782	07/01/1997	ANDLEY et al.			
	5,885,832	03/23/1999	IBARAKI			
	5,843,780	12/01/1998	THOMSON			
	US 6,200,806 B1	03/13/2001	THOMSON			

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
						YES	NO
	WO 02/38741 A1	05/16/2002	WIPO			Yes	

**OTHER DOCUMENTS** (Include Name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.

	Internatioal Search Report
	Hirofumi SUEMORI et al., "Establishment of Embryonic Stem Cell Lines From Cynomolgus Monkey Blastocysts Produced by IVF or ICSI", 2001 wiley-liss, Inc., Developmental Dynamics 222:273-279 (2001)
	Yasuhide FURUTA et al., "BMP4 is essential for lens induction in the mouse embryo", Howard Hughes Medical Institute and Department of Cell Biology, 1998, Genes & Development 12:3764-3775
	Coral G. CHAMBERLAIN et al., "Evidence that fibroblast growth factor promotes lens fibre differentiation", Short Communication Vol. 6 No. 9 1987, Current Eye Research, Pgs. 1165-1169
	Sotaro OOTO et al., "Induction of the differentiation of lentoids from Primate Embryonic Stem Cells" Investigative Ophthalmology & Visual Science, June 2003, Vol. 44, No. 6, Pgs. 2689-2693
	Takabashi MASAYO, "Retinal Regeneration", Regenerative Medicine, Vol. 2, No. 3, August 2003, pgs. 15-19
	Mariko HIRANO et al., "Generation of Structures Formed by Lens and Retinal Cells Differentiating from Embryonic Stem Cells", Developmental Dynamics 228: 664-671, December 2003
	Hiroshi KAWASAKI et al., "Generation of Dopaminergic Neurons and Pigmented Epithelia From primate ES Cells by Stromal Cell-Derived Inducing Activity", PNAS, February 5, 2002, Vol. 99, No. 3, Pgs. 1580-1585
	Hiroshi KAWASAKI et al., "Induction of Midbrain Dopaminergic Neurotechnique Neurons from ES Cells by Stromal Cell-Derived Inducing Activity", Neuron, Vol. 28, 31-40, October 2000
	Makiko KAWAMORITA et al., "In Vitro Differentiation of Mouse Embryonic Stem Cells after Activation by Retinoic Acid", Human Cell, Vol. 15, No. 3, September 2002, Pgs. 178-182

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.